JENEsys Edge 514 Specifications

- Powered by Niagara 4
- Open NiCS
- Supports JAVA Web Start
- Standard Niagara 4 drivers—Niagara 4 Network (Fox), BACnet, Modbus, Web & oBIX
- 4 Digital Outputs
  - Form A contacts, 24 V at 0.5 A
- 4 Analog Outputs
  - 0-10 Vdc
- 6 Universal Inputs
  - Type-3 10 K ohm thermistors
  - Resistance 0-100 K ohms
  - 0-10 Vdc
  - 0-20 mA using a 499 ohm resistor
  - Pulse input; up to 500 Hz
- 10/100 Mbps Ethernet (2), RS-485 (2), Mini-B USB (1), Micro USB (1)
- Standard RS-485 multi-drop communication bus
- 4G eMMC flash memory
- 1GHz AM335x ARM Cortex A8 Processor
- Existing Niagara 4 stations can be added
- 24 Vac/dc power input, ideal for equipment control and monitoring applications
- Runs on Onyxx®—an extensible platform
- Leverages global capacity licenses
- 35 mm DIN rail or flat panel mounting

Deliver the Reliability of Niagara® to the Edge


The JENEsys Edge 514 is a fully programmable Niagara controller with 14 IO built in and expandable IO available, delivering edge connectivity, control, data access and analytics for today’s buildings, energy management applications, equipment and machine-to-machine applications within a secure environment.

Taking Niagara 4 to the edge with real-time control—the JENEsys Edge 514 utilizes the same familiar ProBuilder/Workbench software, Niagara programming tools and Fox Protocol.

Connect & Access Data—Anytime, Anywhere

Purpose-built, Lynxspring’s JENEsys Edge 514 delivers edge connectivity, control, data access and control for today’s small to mid-sized facilities, plant and equipment control, machine-to-machine applications that require smart edge technology.

Reduce Engineering Time & Installation Costs

The JENEsys Edge 514 combines Niagara 4 with Onyxx, a proven IoT edge hardware platform, enabling facility managers, operators, system integrators and contractors to use a known user interface (ProBuilder/Workbench) to achieve operational efficiencies between multiple systems and/or devices, facility management functions, equipment control and business applications.

Features

- Fully programmable Niagara controller; Fox Protocol
- Same Programming Tools—ProBuilder/Workbench
- 14 points of IO on-board and enables an Onyxx Network
- Add up to 8 additional extender modules (at 34 points of IO each) for a maximum of 286 points
- Fast & increased memory capacity
- Small unit footprint
- Real-time Linux OS

Warranty

All products and services purchased through Lynxspring are warranted for a period of eighteen (18) months from date of shipment (the “Warranty Period”) unless otherwise noted in a Limited Warranty included with a Product. The Warranty Period does not cover damage by abuse, accident, misuse, neglect, alteration, self-repair, improper installation, failure of supporting products and systems including electric power or exposor to conditions that exceed the Product stated recommendations.

For Complete warranty information, please refer to Lynxspring’s Terms and Conditions of Product Sale.

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JENE-EG514-DS-V1.3
**Specifications**

**Platform**
- Operating System: Helixx® Framework by Lynxspring® and Niagara®
- Processor: 1 GHz AM335x ARM Cortex A8
- Memory: 512 MB DDR3L 800 MHz, 4 GB 8-bit Embedded MMC on-board Flash
- Real-Time Clock (RTC): Battery-powered clock included to store description/setup values including year, month, date, hours, minutes and seconds.

**Communication Ports**
- 2 Ethernet Ports: 10/100 Mbps (RJ-45 Connector)
- 2 RS-485 Ports: RS-485 serial port with 3-screw connector
- Mini-B USB: USB Client Connector utilizes 5-pin Mini-B USB cable
- Micro USB: Serial shell access
- Onyx Network: 3-wire (LxH LxL SHLD) high-speed differential serial signal

**Inputs and Outputs**
- 6 Universal Inputs: Type-3 10 K ohm thermistors; resistance 0-100 K ohms; 0-10 Vdc; 0-20 ma using a 499-ohm resistor; pulse input: up to 500 Hz; 12-bit A/D resolution
- 4 Digital Outputs: Form A contacts, 24 V at 0.5 A
- 4 Analog Outputs: 0-10 Vdc
- Connector Screw Size: 3/32" slotted
- Supported Wire Size: 28-16 AWG
- Housing: UL94V-0

**Power**
- Power Input: External 24 Vac/dc +10%-10%, 50/60 Hz, minimum 18 VA/device

**Chassis**
- Construction: Base: Plastic, DIN rail or screw mount
- Cover: Plastic
- Cooling: Internal air convection
- Dimensions: 3.46” (8.79 cm) width x 4.25” (10.8 cm) length x 2.125” (5.4 cm) depth
- Mounting: Flat panel and 35 mm DIN rail mounting options standard

**Environment**
- Operating Temperature: 0 – 60 °C (32 –140 °F)
- Storage Temperature: 0 – 70 °C (32 –158 °F)
- Relative Humidity Range: 5 – 95% RH, non-condensing

**Certifications**

**Weight**
- JENE-EG514: 0.6 pounds
- Product and Packaging: 0.8 pounds

**Ordering Information**
- JENE-EG514-100: Packaging will include one (1) JENEsys Edge 514 Controller (LICENSE WITH MAXIMUM OF 100 POINTS, 5 DEVICES)
- JENE-EG514-300: Packaging will include one (1) JENEsys Edge 514 Controller (LICENSE WITH MAXIMUM OF 300 POINTS, 5 DEVICES)

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2900 NE Independence Ave
Lees Summit, MO 64064
sales@lynxspring.com
1 (877) 649-5969

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